

**CLAIMS**

1 1. A service logic execution environment (SLEE) in an intelligent network model,  
 2 said network model comprising an application layer and a protocol layer, said SLEE  
 3 comprising:

4 a class loader for loading service components in the SLEE, the SLEE registering  
 5 each loaded service component to receive events directed to particular registered  
 6 service components; and,

7 an event routing bus for receiving events from the protocol layer and other  
 8 service components, said event routing bus routing said received events to said  
 9 particular registered service components executing in the SLEE.

1 2. The SLEE of claim 1, further comprising:

2 a thread pool; and,

3 a thread pool manager for allocating threads for use by said loaded service  
 4 components.

1 3. The SLEE of claim 1, further comprising:

2 at least one timer for use by service components in the SLEE.

1 4. The SLEE of claim 1, further comprising:

2 at least one usage counter for recording service request response metrics.

1 5. The SLEE of claim 1, wherein said event routing bus is further configured to

2 receive events from application components which are external to the SLEE and  
 3 the protocol layer.

1 6. The SLEE of claim 1, wherein each service component comprises:

2 at least one service instance; and,

3 a service wrapper for providing an interface to said at least one service instance.

1 7. The SLEE of claim 1, wherein each service component further comprises:  
2 a deployment descriptor for providing configuration information to said SLEE,  
3 wherein said SLEE can use said deployment descriptor to properly configure said  
4 service component.

1 8. The SLEE of claim 1, wherein at least one of said service components contains  
2 a protocol stack for managing communications in a communications network.

1 9. The SLEE of claim 1, wherein said SLEE implements a JAIN Service Logic  
2 Execution Environment (JSLEE) interface.

1 10. A method for routing events in a service logic execution environment (SLEE)  
2 comprising the steps of:  
3 receiving at least one event from a service component executing in the SLEE;  
4 and,  
5 routing each received event to a service component which has registered with  
6 the SLEE to receive said routed event.

1 11. The method of claim 10, wherein said receiving step further comprises the step  
2 of:  
3 receiving at least one event from an application component which is external to  
4 the SLEE.

1 12. The method of claim 10, wherein said receiving step further comprises the step  
2 of :  
3 receiving at least one event from a protocol stack.

1 13. A machine readable storage, having stored thereon a computer program for  
2 routing events in a service logic execution environment (SLEE), said computer program

3 having a plurality of code sections executable by a machine for causing the machine to  
4 perform the steps of:

5       receiving at least one event from a service component executing in the SLEE;  
6 and,  
7       routing each received event to a service component which has registered with  
8 the SLEE to receive said routed event.

1 14. The machine readable storage of claim 13, wherein said receiving step further  
2 comprises the step of:

3       receiving at least one event from an application component which is external to  
4 the SLEE.

1 15. The machine readable storage of claim 13, wherein said receiving step further  
2 comprises the step of :

3       receiving at least one event from a protocol stack.